

**South Hadley High School**  
"A Tradition of Excellence"

*We pledge to create a challenging and supportive academic community in which each member strives to develop his/her potential, to become a life-long learner, and to act as a responsible citizen in a diverse and global society.*

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**Accelerated Algebra 2 Syllabus**

<b>Course Description / Prerequisites</b>
<b>#3120 Accelerated Algebra Two</b> (6 credits Full Year) <b>Prerequisite:</b> Minimum of B in Algebra One and B in Accelerated Geometry or A in CP Geometry This is an accelerated Algebra course that provides a thorough foundation in intermediate and advanced algebra with special emphasis given to families of functions. Included in the study of functions will be an introduction to trigonometry. This course is for the well-prepared Algebra 1 student. A scientific calculator is necessary for success.
<b>Course Objectives / Outcomes / Expectations/ Topics</b>
Students will study: <ul style="list-style-type: none"><li>• Equations and inequalities</li><li>• Linear functions</li><li>• Systems of linear equations and inequalities</li><li>• Matrices and determinants</li><li>• Quadratic functions</li><li>• Polynomial functions</li><li>• Powers, roots, and radicals</li><li>• Exponential and logarithmic functions</li><li>• Rational equations and functions</li><li>• Trigonometric ratios and functions</li><li>• Trig graphs and identities</li><li>• Conic sections</li></ul>
<b>South Hadley High School's Learning Expectations</b>
<ul style="list-style-type: none"><li>❖ E2: Define, analyze, and solve complex problems and communicate results.</li><li>❖ E4: Demonstrate personal, social and civic responsibility.</li><li>❖ E5: Acquire, apply, integrate, analyze, and synthesize knowledge.</li></ul>
<b>Text and Resources Required</b>
Text: <u>Algebra 2</u> McDougal Littell, publisher c.2001 TI 83+ graphing calculator or scientific calculator, notebook, pencil
<b>Course Assessments</b>
Grade is based on: Tests, Quizzes, Homework, Classwork, and Projects Linear graphing project, Quadratic functions project MidYear Exam 1/18 <sup>th</sup> of final grade Final Exam 1/18 <sup>th</sup> of final grade